WHAT IS CLAIMED IS:

- 1. A transmissive screen applied to a rear projector, the transmissive screen comprising a light-guide plate having substantially cylindrical light-guide spaces arranged in a flat substrate; and light-exit-angle distribution uniformizing means for making the angular distribution of the light exiting correspondingly from the substantially cylindrical light-guide spaces of the light-guide plate uniform over the transmissive screen, the light-exit-angle distribution uniformizing means being disposed at the light-exiting face side of the light-guide plate.
- 2. The transmissive screen according to Claim 1, wherein the light-guide spaces have a diameter in the range of 1 μ m to 150 μ m.
- 3. The transmissive screen according to Claim 1, wherein the light-guide spaces have a length greater than the diameter of the light-guide spaces, and have a length of 10 mm or less.
- 4. The transmissive screen according to any one of Claim 1, wherein the flat substrate comprises an opaque material.
- 5. The transmissive screen according to any one of Claim 1, wherein the light-exit-angle distribution uniformizing means comprises a microlens array having microlenses, each microlens being provided correspondingly to each of the substantially cylindrical light-guide spaces of the light-guide plate, the microlenses in a substantially central region of the transmissive screen having radii of curvature smaller than at least the radii of curvature of the microlenses in a peripheral region of the transmissive screen.
- 6. The transmissive screen according to any one of Claim 1, wherein the light-exit-angle distribution uniformizing means comprises a microlens array having microlenses, each microlens being provided correspondingly to each of the substantially cylindrical light-guide spaces of the light-guide plate, a material composing the microlenses in a substantially central region of the transmissive screen has a greater refractive index that at least a second material composing the microlenses in a peripheral region of the transmissive screen.
- 7. The transmissive screen according to Claim 5, wherein the microlens array is disposed on the light-exiting face of the light-guide plate.
- 8. The transmissive screen according to Claim 5, wherein the light-guide plate comprises a light diffusing layer disposed on its light-exiting face, and the microlens array is disposed on the light-exiting face of the light diffusing layer.

- 9. The transmissive screen according to any one of Claim 1, wherein the light-exit-angle distribution uniformizing means comprises a light diffusing layer, the light diffusing layer in a central region of the transmissive screen having a haze value greater than at least the haze value of the light diffusing layer in a peripheral region of the transmissive screen.
- 10. The transmissive screen according to Claim 9, wherein the light diffusing layer diffuses light substantially at the surface thereof.
- 11. The transmissive screen according to Claim 9, wherein the light diffusing layer is disposed on the light-exiting face of the light-guide plate.
- 12. The transmissive screen according to any one of Claim 9, wherein the light diffusing layer has a haze value in the range of 5% to 90%.
- 13. The transmissive screen according to any one of Claim 9, wherein the light diffusing layer has a gloss value in the range of 5% to 40%.
- 14. The transmissive screen according to any one of Claim 9, wherein the light diffusing layer has a rough surface with substantially conical protrusions.
- 15. A rear projector comprising an optical projection unit, a light-guide mirror, and a transmissive screen according to any one of Claim 1.